SEQUENCE LISTING

(1) GENERAL INFORMATION:

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- (i) APPLICANT:
 - (A) NAME: Stephen Louise WESTON, Stephen James KELLY,

Nancy Hastings ROBERTSON
(B) ADDRESS: Gadbrook Park, Rudheath Northwich, Cheshire, GB-CW9 7RA; GB

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- (ii) TITLE OF INVENTION: SEQUENCES
- (iii) NUMBER OF SEQUENCES: 27

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- (iv) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compati
 - (C) OPERATING SYSTEM: PC-DOS/NS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

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- (vi) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: GB 9800 \$36.6
 - (B) FILING DATE: 13-JAN-1998

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- (2) INFORMATION FOR SEQ ID NO: 1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

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GAGCACAGTA CGAAAAACCA CCT

(2) INFORMATION FOR SEQ ID NO: 2:

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- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 24 base pairs
 - (B) TYPE: nucleic acid

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		(a) ampanded single	
		(C) STRANDEDNESS:\\single (D) TOPOLOGY: linear	
		(D) TOPOLOGI: IIIIehi	
	5	(ii) MOLECULE TYPE: other nucleic acid	
	10	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: AAACTTTTAC AGGGATGGAG AACG	24
		(2) INFORMATION FOR SEQ ID NO: 3:	
	15	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid	
	20	(C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid	
	25	(xi) SEQUENCE DESCRIPTION: SEQ TO NO: 3:	
	30	AGAGGATTAT CTATGCAAAT CCTTGTAACC (2) INFORMATION FOR SEQ ID NO: 4:	30
	30	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs	
	35	(B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
		(ii) MOLECULE TYPE: other nucleic acid	
	40		
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:	
	45	5 TCAACTTCAC TATCAAAAGT CATCATCTAG	30
		(2) INFORMATION FOR SEQ ID NO: 5:	

		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 30 base pairs	
		(B) TYPE: nucleic acid	
	5	(C) STRANDEDNESS: single	
	3	(D) TOPOLOGY: linear	
		(8)	
		(ii) MOLECULE TYPE: other nucleic acid	
		(II) Nondouz III	
	10		
	10		
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:	
		(X1) SEQUENCE BESCRIFT	
no.	15 -	CTTGGGATT CAATAACTTT GCAACAGTCA	30
150 150 150	15 т	CTTGGGATT CARTACCTT GGTZGGT	
his der with the desired the		(2) INFORMATION FOR SEQ ID NO: 6:	
71	(2) INFORMATION FOR SEQ 12 No.	
Ñ		(i) SEQUENCE CHARACTERISTICS:	
T	20	(A) LENGTH: 25 base pairs	
U	20	(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: single	
: (2		(D) TOPOLOGY: linear	
teel jede		(D) TOPOLOGI: Timedi	
	0.5	(ii) MOLECULE TYPE: other nucleic acid	
'n	25	(ii) MOLECULE TIPE: Other Moroto	
		PROCEDURATION, SEC ID NO: 6:	
	30	(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:	
		- CAMPAGA CA CARC	25
		GAATTCCCAA ACTTTTAGAG ACATC	
		TOP GEO ID NO. 7:	
		(2) INFORMATION FOR SEQ ID NO: 7:	
	35	CURP CURP CONTCS.	
		(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 40 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: single	
	40	(D) TOPOLOGY: linear	
		(ii) MOLECULE TYPE: other nucleic acid	
		(ii) MOLECULE TYPE: Other nucleus was a	
	45		
		A CROWENCE DESCRIPTION: SEO ID NO: 7:	

	,	TACTAAAAGT GACTCTCTAA TTTTCTATTT TTGGTAATTA	40
		(2) INFORMATION FOR SEQ ID NO: 8:	
	5	(i) SEQUENCE CHARACTERISTICS:	
		(A) LENGTH: 30 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: single	
	10	(D) TOPOLOGY: linear	
		athor nucleic acid	
		(ii) MOLECULE TYPE: other nucleic acid	
Ŧ	15		
1		(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:	
U M			30
	•	AGTTTGCAGA GAAAGACAAT ATAGTTCTCT	
IJ	20	(2) INFORMATION FOR SEQ ID NO: 9:	
 :		(2) INFORMATION TO A STATE OF THE STATE OF T	
erac erac		(i) SEQUENCE CHARACTERISTICS:	
ᆄ		(A) LENGTH: 29 base pairs	
ü	25	(B) TYPE: nucleic acid	
Ö		(C) STRANDEDNESS: single	
Ü		(D) TOPOLOGY: linear	
		(ii) MOLECULE TYPE: other nucleit acid	
	30	· ·	
		CECUENCE DESCRIPTION: SEQ ID NO: 9:	
	_	(X1) SEQUENCE BEONITION	
	3	5 TAATCTCTAC CAAATCTGGA TACTATACC	29
		TARTOTOTAG GAZITOTOTA	
		(2) INFORMATION FOR SEQ ID NO: 10:	
		40 (i) SEQUENCE CHARACTERISTICS:	
	4	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs	
		(B) TYPE: nucleic acid	
		(C) STRANDEDNESS: single	
		(D) TOPOLOGY: linear	
	4	45	
		(ii) MOLECULE TYPE: other nucleic acid	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10: 5 30 TGATCACTCC ACTGTTCATA GGGATCCATC (2) INFORMATION FOR SEQ ID NO: 11: (i) SEQUENCE CHARACTERISTICS: 10 (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear the red that has teen too had her 15 (ii) MOLECULE TYPE: other nucleic acid 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11: O 28 AATTTGAGAG AACTTGATGG TAAGTACA 25 (2) INFORMATION FOR SEQ ID NO: 12: ĪŲ (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 30 (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12: 30 40 GTATCTATAT TCATCATAGG AAACACCATT (2) INFORMATION FOR SEQ ID NO: 13: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs 45 (B) TYPE: nucleic acid (C) STRANDEDNESS: single

(D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13: 30 10 CCAGACTTCA CTTCTAATGA TGATTA GGG (2) INFORMATION FOR SEQ ID No: 14: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs Total Test from the test from (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14: IJ 27 ACATTTCCTT TCAGGGTGTC TGACTAA (2) INFORMATION FOR SEQ ID NO: \$\hbigs\sigma_5:\$ 30 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 31 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 35 (ii) MOLECULE TYPE: other nucleic acid 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15: 31 TTGTGGATCA AATTTCAGTT GACTTGTCAT C 45 (2) INFORMATION FOR SEQ ID NO: 16:

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(i) SEQUENCE CHARACTERISTICS:
                 (A) LENGTH: 30 base pairs
                 (B) TYPE: nucleic acid
                 (C) STRANDEDNESS: single
                 (D) TOPOLOGY: linear
    5
           (ii) MOLECULE TYPE: other nucleic acid
   10
           (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
                                                                                30
       GTATCTATAT TCATCATAGG AAACACCACA
   15
(m)
       (2) INFORMATION FOR SEQ ID NO: 1\sqrt{ }:
14
             (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 30 base pairs
                  (B) TYPE: nucleic acid
    20
                  (C) STRANDEDNESS: single
                  (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: other nucleic acid
    25
             (xi) SEQUENCE DESCRIPTION: SEQ IN NO: 17:
    30
                                                                                  30
        GACTTCACTT CTAATGATGA TTATGGGAGA
         (2) INFORMATION FOR SEQ ID NO: 18:
              (i) SEQUENCE CHARACTERISTICS:
     35
                   (A) LENGTH: 30 base pairs
                    (B) TYPE: nucleic acid
                    (C) STRANDEDNESS: single
                    (D) TOPOLOGY: linear
     40
              (ii) MOLECULE TYPE: other nucleic acid
      45
              (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:
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30 TGCCATGGGG CCTGTGCAAG GAAGTATTG (2) INFORMATION FOR SEQ ID NO: 19: (i) SEQUENCE CHARACTERISTICS: 5 (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 10 (ii) MOLECULE TYPE: other nucleic acid 15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19: 30 AGCCTATGCC TAGATAAATC GCGATAGACT 20 (2) INFORMATION FOR SEQ ID NO: 20 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pair (B) TYPE: nucleic acid (C) STRANDEDNESS: single 25 (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20: 37 35 GTTTCACATA GTGTATGACC CTCTATATAC ACTCATT (2) INFORMATION FOR SEQ ID NO: 21: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs 40 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 45

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21: 30 5 CCTATGCACT AATCAAAGGA ATCATCCTGT (2) INFORMATION FOR SEQ ID NO: 22: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs 10 (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid and har gan has the 15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22: 20 ij. 30 TTTGTTTATT GCTCCAAGAG AGTCATA¢CA [...] 1-2 (2) INFORMATION FOR SEQ ID NO: 23: J 25 (i) SEQUENCE CHARACTERISTICS: Ü (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single 30 (D) TOPOLOGY: linear (ii) MOLECULE TYPE: other nucleic acid 35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23: 25 GCTAAAGAAA TTCTTGCTCG TTGTT 40 (2) INFORMATION FOR SEQ ID NO: 24 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid 45 (C) STRANDEDNESS: single (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid 5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24: GACTGACTGA CTGACTGACT CTGACTGACT TATTCACCTT GCTAAAGAAA TTCTTGCTGA 10 (2) INFORMATION FOR SEQ ID NO: 25: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid i N (C) STRANDEDNESS: single (D) TOPOLOGY: lineat (ii) MOLECULE TYPE: other hucleic acid 20 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25: 28 TAAAATTGGA GCAATGTTGT TTTTGACC (2) INFORMATION FOR SEQ ID NO: 26 30 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pair (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 35 (ii) MOLECULE TYPE: other nucleit acid 40 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26: 30 TATTTTTATT TCAGATGCGA TCTGTGAGTT 45 (2) INFORMATION FOR SEQ ID NO: 27:

-11-

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 29 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

TTTTGCTGTG AGATCTTTGA CAGTCATTT

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